



VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE, CHANDKHEDA

Brief Report on “Industry Visit at ISRO”

Name of Department/Organizer	:	Electronics & Communication Department and IEI Student Chapter
Date & Time	:	1 st and 2 nd August 2018
Venue	:	Ahmedabad
No of Participants	:	160

• Objective of the Event

- ❖ To gain knowledge about how television signals are broadcasted with the help of satellites.
- ❖ To understand various concepts of satellite and space missions done by ISRO.
- ❖ To provide technical Exposure to the students about Space Technology.

• About ISRO

- ❖ ISRO, Space Application Centre at Ahmedabad is spread across two campuses having multidisciplinary activities. The core competence of the Centre is involved in diverse areas and primarily meets the communication, navigation and remote sensing needs of the country and also contributed in scientific and planetary missions of ISRO like Chandrayaan-1, Mars orbiter Mission etc. The communication transponders developed at this Centre for Indian National Satellite (INSAT) and Geo Synchronous Satellite (GSAT) series of satellites. The facilities at SAC include highly sophisticated payload integration laboratories, electronics and mechanical fabrication facilities, environmental test facilities, image processing and analysis facilities..

• About Visit

- ❖ Around **85** students of 1st Semester and **104** students of 5th semester from EC department along with three faculties Prof. AmitAgrawal , Prof. Jagruti Makwana and Prof. Rahul Patel had visited ISRO on 1st and 2nd August, 2018.
- ❖ A model of a satellite launcher at the entrance of the centre fascinated all the students. This centre is dedicated to Sir Vikram Sarabhai for his contribution to the Space Research Program. In first session, enthralling 3D movies were shown to the students on the process of launching of Space Crafts and the activities of astronauts in space ship. The mechanism of launching of satellites (GSLV) was explained by the guide through LED screen too. He shared the reason of launching of every satellite from shriharikota only.

- ❖ He also explained the future plans of ISRO in which NAVIC receiver to be installed in mobile phones and expecting to reach SUN in 2020. He narrated the concepts of Remote sensing satellites and explained the reason of keeping such satellite at a distance of 500 to 1000km i.e. LEO (low earth orbit). He explained the fuels types (solid, liquid and cryogenic) which is available in launching vehicle. Students had also asked various questions regarding communication field to make session interactive.
- ❖ The visit provided an insight to the quality of research happening in the area of space technology and the scope of electronics and communication engineer in this field. It was a good experience for students which provided exposure about the Indian space Programme and how much they as communication engineers can do in this field. They also learnt about geostationary satellites and polar satellites.

- **Photographs**

